1. Find the domain of the function.
2. All real numbers
3. All real numbers
4. All real numbers
5. All real numbers
6. Convert the measure to radians. revolution counterclockwise from the -axis.
7. Identify the logarithmic equation written in exponential form.
8. Which expression completes the fundamental trigonometric identity?
9. Find the slope-intercept form of the equation of the line through the point parallel to the line .
10. Find the partial sum.
11. Use a graphing utility to graph the function and visually determine the intervals on which the function is increasing, decreasing, or constant.
12. Use the Law of Sines for to the nearest tenth.
13. Identify the function that is odd.
14. Determine which of the following are one-to-one functions.
15. Use the given measures and the Law of Cosines to solve triangle
16. Factor the expression and use the fundamental identities to simplify.
17. 1
18. Find the reference angle
19. Solve for
20. In the population of a country was estimated at million. For any subsequent year the population in millions is where is the number of years since Use a graphing calculator to estimate the population in
21. A -foot ladder makes an angle of with the ground as it leans against a barn. How far up the barn does the ladder reach?
22. feet
23. feet
24. feet
25. feet
26. Find the function that represents the graph.
27. Use the Quadratic Formula to solve.
28. Identify the quadrant in which lies. and
29. Quadrant I
30. Quadrant II
31. Quadrant III
32. Quadrant IV
33. The number of bacteria in a culture is modeled by where is the time in hours. If when what is the time required for the original population to triple in size?
34. hours
35. hours
36. hours
37. hours
38. Use sigma notation to write the sum.
39. Identify the equation of the quadratic function in standard form and find the vertex of the graph.
40. ; Vertex:
41. ; Vertex:
42. ; Vertex:
43. ; Vertex:
44. The intensity of light received from a source varies inversely as the square of the distance from the source. If the light intensity is -foot candles at feet, find the light intensity at feet.
45. foot-candles
46. foot-candles
47. foot-candles
48. foot-candles
49. The time required to grow a certain bacteria in a culture beginning with bacteria is where is the number of bacteria and is the time in hours. How much time is required to grow a culture of bacteria?
50. hours
51. hours
52. hours
53. hours
54. Condense the expression to the logarithm of a single quantity.
55. None of these
56. Which is a trigonometric identity?
57. Use the properties of logarithms to expand the expression. (Assume all variables are positive.)
58. Find the value of
59. Find the amplitude and the period of the function.
60. Amplitude Period
61. Amplitude Period
62. Amplitude Period
63. Amplitude Period
64. If and find
65. Evaluate the logarithm using the change-of-base formula.
66. Identify the expression that completes the equation so that it is an identity.
67. Given and find Draw the triangle in the correct quadrant.
68. Find the limit:
69. None of these
70. Find the limit:
71. None of these
72. Find the limit:
73. The limit does not exist.
74. None of these
75. Use the graph to estimate
76. The limit does not exist.
77. None of these
78. Use the graph to estimate
79. The limit does not exist.
80. None of these
81. Use the graph to find the (if it exists) for
82. The limit does not exist.
83. None of these
84. Undefined
85. None of these
86. Undefined
87. None of these
88. Undefined
89. \_\_\_\_\_\_\_\_
90. \_\_\_\_\_\_\_\_